



# FORT BENNING

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## Environmental Management System (EMS) Refresher Training

*September 2007*



# **How will the Environmental Management System (EMS) affect you?**

**After this training you will be expected to...:**

- **Know Ft Benning's significant environmental aspects and potential impacts of your work**
- **Understand the benefits of improved personal performance**
- **Be aware of Ft. Benning's EMS objectives and targets**
- **Be familiar with the EMS policy and procedures**





# Environmental Management System (EMS) Fundamentals



# What is an Environmental Management System (EMS)?

- EMS is a system for planning and achieving responsible environmental management.
- EMS is based on a continuous cycle of improvement.



# What is an EMS?

## EMS Components:

- Plan - assessing operations and management and their impacts on resources.
- Do - integrate SMS policy and procedures throughout the system through document control, awareness training, structure, and responsibility.
- Check - ensuring the environmental programs are ‘self-correcting’.
- Act - committing to compliance, pollution preventing, and continual improvement of the environmental program.





# **Why are we doing this?**

## **EMS Regulatory Drivers**

### **Executive Order 13423**

- **By 31 December 2008 Federal facilities must have a fully implemented EMS**
- **The EMS shall include measurable goals, objectives, and targets that are reviewed and updated annually**
- **Once established, EMS performance measures shall be incorporated in agency facility audit protocol**





# Why are we doing this? EMS Regulatory Drivers

## US Army Policy

- **Adopt ISO 14001 as the EMS goal**
  - A formalized series of voluntary international standards
  - Only standard to which a base can register
  - Modeled after ISO 9000, widely recognized worldwide
- **EMS implementation will be incremental**
  - Implementation shall be initiated NLT FY04
  - EMS shall be in place NLT December 2005
  - Fully conform with ISO 14001 NLT FY09





# Individual Conformance

Why is it important for you to conform to the EMS and specified operating procedures?

- Negligence can lead to increased waste, accidents, spills, injuries, and potential fines, all of which impact the success of the mission.







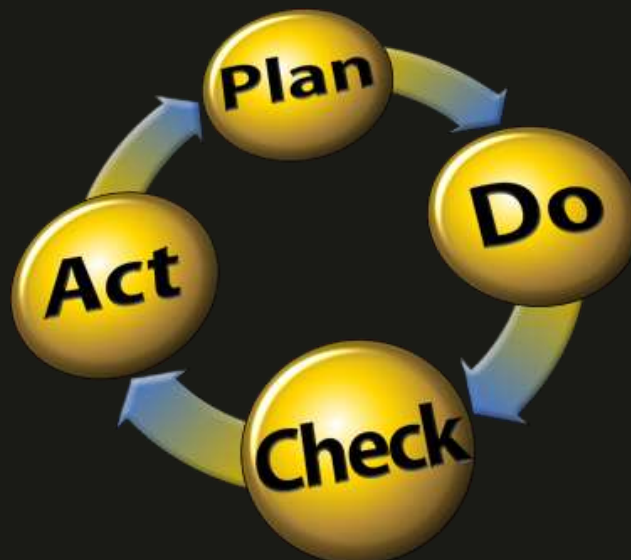
# Benefits of EMS

- Improves support and sustainability of mission activities
- Improved environmental performance
- Reduced costs
- Improved compliance (proactive vs. reactive)
- Improved process efficiency
- Fewer overlaps and gaps between programs
- Maximize use of existing capabilities





# Understanding EMS - Ft. Benning Specifics



# Ft Benning's Environmental Policy



DEPARTMENT OF THE ARMY  
US ARMY INSTALLATION MANAGEMENT COMMAND  
HEADQUARTERS, UNITED STATES ARMY GARRISON, FORT BENNING  
6751 CONSTITUTION LOOP, SUITE 550  
FORT BENNING, GEORGIA 31905-4500

REPLY TO  
ATTENTION OF

JUL 31 2007

IMSE-BEN-PWE-P

## MEMORANDUM FOR DISTRIBUTION

SUBJECT: Environmental Management System (EMS) Environmental Policy

1. The mission of Fort Benning is to provide the world's best Infantry Soldier and trained units; to be a power projection platform capable of deploying and redeploying Soldiers, Civilians, and units anywhere in the world on a short notice; and to be the Army's premier installation and home for Soldiers, Families, Civilian Employees, and military retirees.
2. In order to execute the mission and achieve our environmental goals, Fort Benning will implement programs that will ensure environmental compliance, prevent pollution, sustain natural and cultural resources, and promote continual improvement through the use of an effective Environmental Management System.

## HOOAH

- H Help implement and perform programs that ensure environmental compliance
  - O Observe practices that prevent pollution
  - O Obey policies that sustain natural
  - A and cultural resources
  - H Hold up ideas that promote continual improvement in environmental performance
3. POC for this action is Mr. John Brent, EMS Management Representative, Chief Environmental Management Division, Directorate of Public Works, (706) 545-2180.

  
KEITH R. LOVRO  
Colonel, U.S. Army  
Garrison Commander

DISTRIBUTION:  
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# Ft Benning's Aspects & Impacts

## What are Aspects & Impacts?

- **Aspect:** Elements of an organization's activities, products, and services which can interact with the environment.
  - Example: Uncontrolled release to surface water
- **Impact:** Any change to the environment, whether adverse or beneficial, wholly or partially resulting from an organization's activities, products, or services.
  - Example: Degradation of water quality





# Ft. Benning's Significant Impacts

- Land & Soil
  - Military Training, Field Exercises and Equipment
- Water
  - Food Service
    - Uncontrolled and controlled release flow into surface water
- Air
  - Off-road, On-road Vehicles, Maintenance and Repairs
  - Facilities Operations and Construction





# Example Objectives, Targets, and EMPs

- **Establish objectives and targets based on prioritized aspects**
  - Example Objective: Reduce solid waste disposal
  - Example Target: Divert 40% of solid waste from landfilling
- **Develop Environmental Management Programs (EMPs) to achieve the objectives and targets**
  - Who is responsible (Land & Soil, Water, and Air Workgroups)
  - What is to be done
  - When will the actions occur





# Land & Soil: Objective and Target

- **Objective:**
  - Continually increase acreage of usable training lands to support mounted and dismounted training.
- **Target:**
  - Increase numbers acres of land to be used for mounted and dismounted training by 5 percent.





# Land & Soil: EMP

- **Goals:**
  - Beginning with D6-D16, evaluate and prioritize damaged areas. Develop potential solutions and estimated price tag.
- **Land & Soil Workgroup:**
  - DOT, Conservation, EMS Manager







# Water: Objective and Targets

- **Objective:**
  - Decrease impact to surface water quality.
- **Targets:**
  - Reduction in number of Sanitary Sewer overflows (SSOs).
  - Improve water quality training for construction and industrial activities.





# Water: EMP for SSOs

- **Problem:**

- Sanitary Sewer Overflows (SSOs) occur in the housing and dining areas of Ft. Benning.

- **Goals:**

- Work with Columbus Water Works (CWW) to determine where the problem is the worst.
- Increase awareness and education on the issue, concentrating in problem areas.

- **Water Workgroup:**

- Compliance, EMS Manager, CWW





# Water: EMP for Water Quality Training

- **Problem:**

- Surface water quality is negatively impacted by work at construction and industrial areas.

- **Goals:**

- Research and develop the most efficient ways to train the construction and industrial workers on water quality issues.

- **Water Workgroup:**

- Compliance, Training, EMS Manager





# Air: Objectives and Targets

- **Objective 1:**
  - Reduce particulate matter (PM) impacts from non-tactical vehicles.
- **Targets:**
  - Promote the use of alternative fuels for non-tactical vehicles used on Ft. Benning.
  - Cooperate with Federal and state regulators to ease the Clean Air Act regulatory burdens associated with prescribed burning.
- **Objective 2:**
  - Reduce VOC emissions.
- **Target:**
  - Use water-based Chemical Agent Resistant Coating (CARC) on Army weapons systems.





# **Air: EMP for Alternative Fuels**

- **Problem:**
  - Encouraging the use of alternative fuels.
- **Goals:**
  - Educate the public to promote the use of the Ethanol-85 pump.
  - Ensure the bus fleet is using catalytic converters.
- **Air Workgroup Members:**
  - P2, EMS Manager, Air Compliance





# Air: EMP for Prescribed Burning

- **Problem:**
  - PM regulatory burden is increasing, yet prescribed burning is needed.
- **Goals:**
  - Work with regulators to decrease and manage the regulatory burden by pushing for a Smoke Management Plan.
  - Determine if increasing prescribed cycle is a possibility.
- **Air Workgroup Members:**
  - P2, EMS Manager, SJA, Air Compliance





# Air: EMP for Reducing VOCs

- **Problem:**
  - VOC emissions from painting operations.
- **Goals:**
  - Low VOCs painting options are available but are not usable until the AEC approves their use for all weapons systems at Ft. Benning.
- **Air Workgroup Members:**
  - P2, EMS Manager, Air Compliance





# EMS Management Team Roles and Responsibilities

## Team Member

## Primary Responsibility

**Garrison Commander**

**Appoints EMS Management Representative and CFT, Signs the Environmental Policy, provides oversight and guidance, and conducts annual Management Review**

**Environmental Quality Control Council (EQCC)/EMS Cross Functional Team (CFT)**

**Represent all installation functional areas, review EMS status and provide guidance, and participate in Annual Management Review**

**EMS Management Representative and EMS Program Manager**

**Handle day-to-day operations of EMS**







# Keys to Success





# **EMS Management Team Roles and Responsibilities**

## **Your Environmental Point of Contact:**

- **Contact your shop or process supervisor and/or call 911 for all emergency situations.**
- **If additional EMS information is required Tom Tuten, EMS Program Manager (545-1298).**





# What to know about EMS

1. Understand EMS
2. Be familiar with the Ft. Benning's environmental policy and procedures
3. Understand Ft Benning's environmental aspects and the potential impacts of your work
4. Know your point of contact for EMS questions and emergency





# Training is Complete

Please fill in your name and date on the following slide. Print out the certificate for your records.

Thank you for making Ft. Benning an environmental leader!





**Ft. Benning**  
Certificate of Completion

is hereby granted to



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to certify that he/she has completed to satisfaction

**Environmental Management Systems (EMS)  
Refresher Training**

Granted: \_\_\_\_\_

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John Brent, Environmental Management Division Chief  
EMS Management Representative